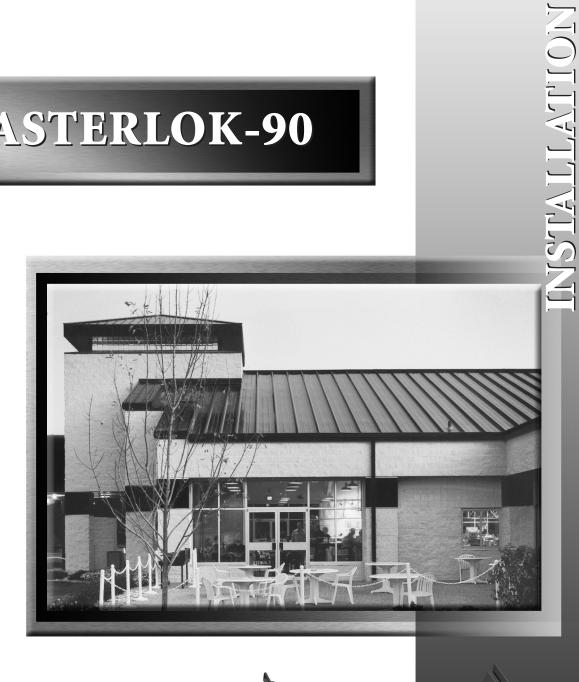
# **MASTERLOK-90**





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## **GENERAL NOTES**

The details shown on the following pages are suggestions or guidelines for installing the MasterLok-90 (ML90) roof panel system. The installation details shown here are proven methods of construction, but they are not intended to cover all building requirements, designs or codes. The details may require changes or revisions due to individual project conditions.

Installation procedures shall be in accordance with the manufacturer's printed instructions, details or approved shop drawings. Installers should thoroughly familiarized themselves with all instructions prior to beginning the installation process.

The designer/installer is responsible to ensure the following:

That the details here meet the particular building requirements.

Awareness of and allowance for expansion/contraction of the roof panels.

That adequate water tightness is maintained.

That a proper uniform substructure is used to avoid panel distortion and that the substructure meets necessary code requirements.

That all supporting members have been examined and are straight, level and plumb.

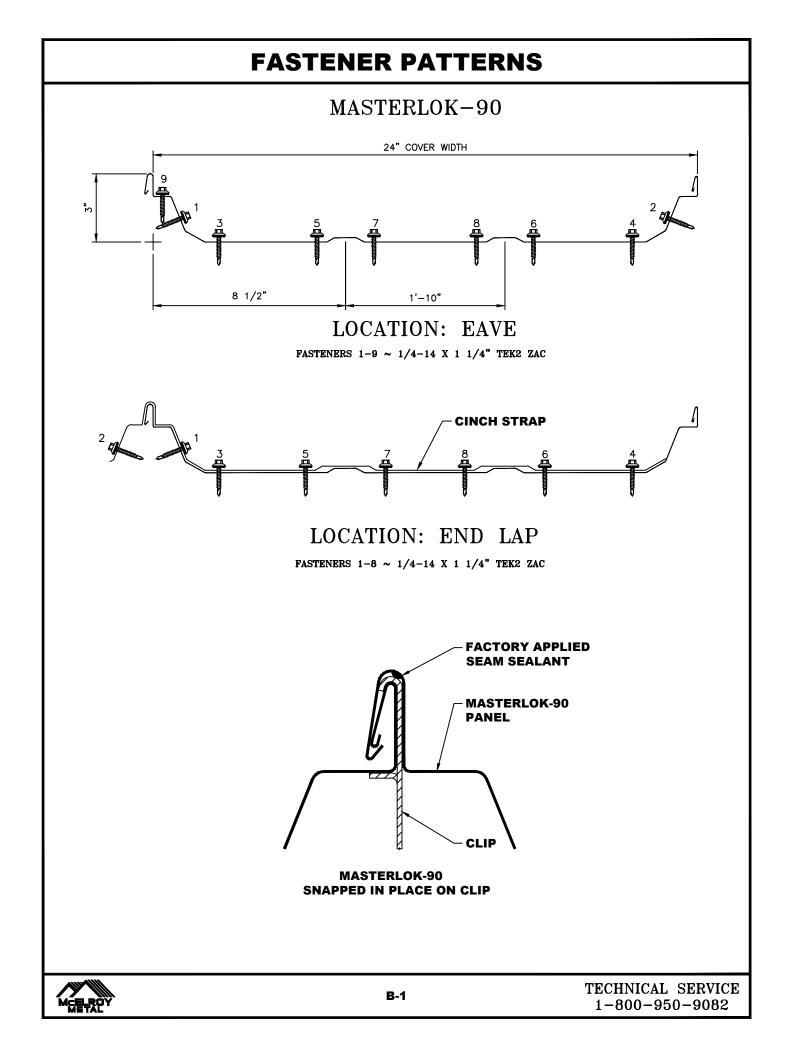
McElroy Metal can provide all flashings and accessories shown in the installation drawings unless noted otherwise. Panels, flashing and trim shall be installed true and in proper alignment with any exposed fasteners equally spaced for the best appearance. Sealant shall be field applied on a clean, dry surface.

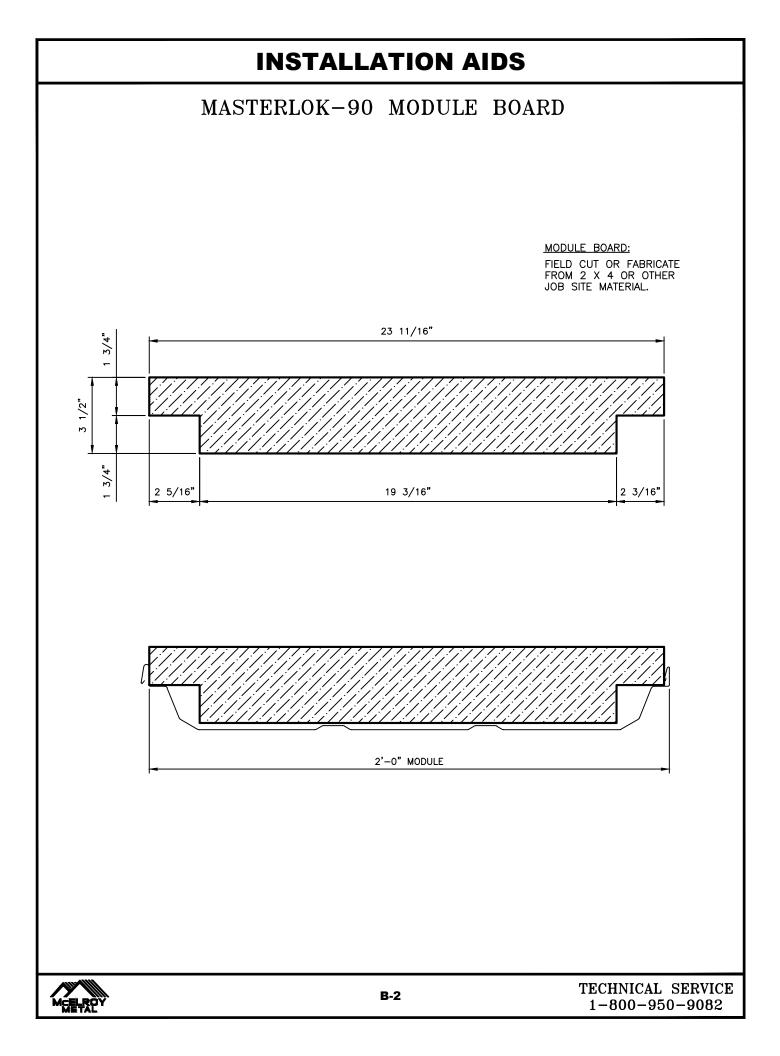
Some field cutting and fitting of panels and flashings is to be expected and to be considered a part of normal installation work. Workmanship shall be of the best industry standards and with installation performed by experienced metal craftsmen.

Oil canning of metal panels is inherent in the product and is not a cause for rejection. Striated panels are recommended as they reduce the appearance of oil canning.

Contents of this manual are subject to change without notice. To confirm this book is the most current copy, please visit McElroy Metal's website at www.mcelroymetal.com.







#### **PANEL CLIPS and THERMAL SPACER CHART**

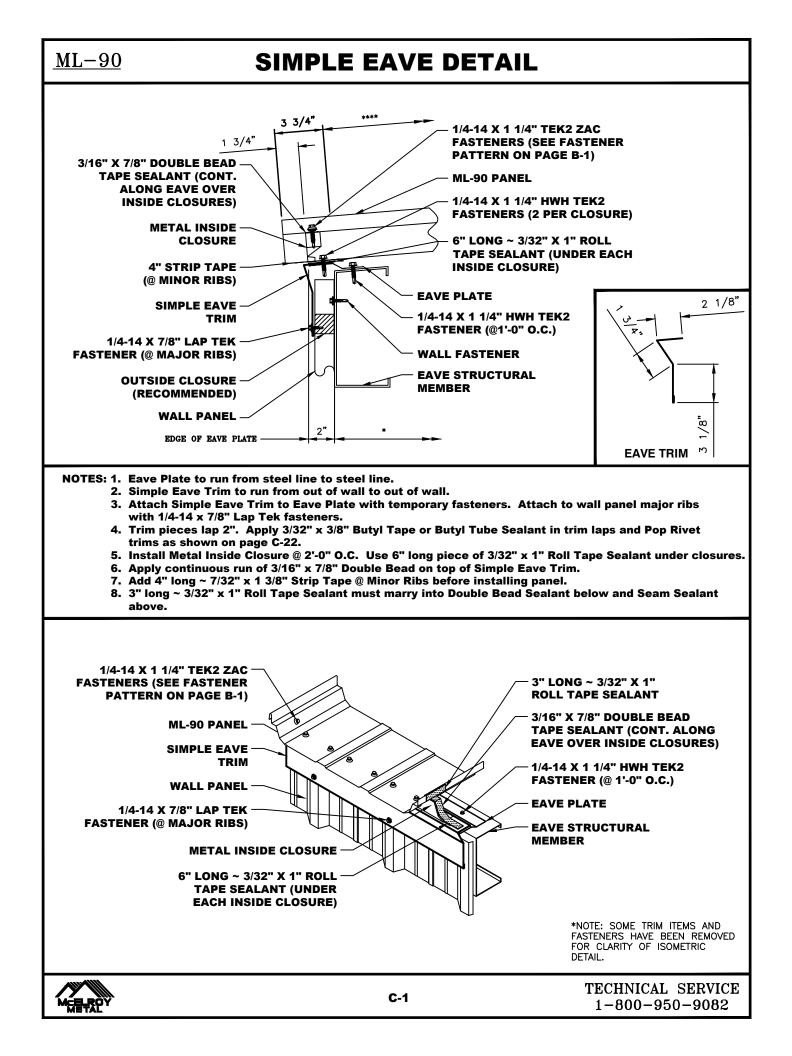
The following guidelines should be used when selecting the appropriate roof clips and thermal spacers for the MasterLok-90 roof system. The maximum insulation listed is based on UL-90 ratings for the MasterLok-90 Panels.

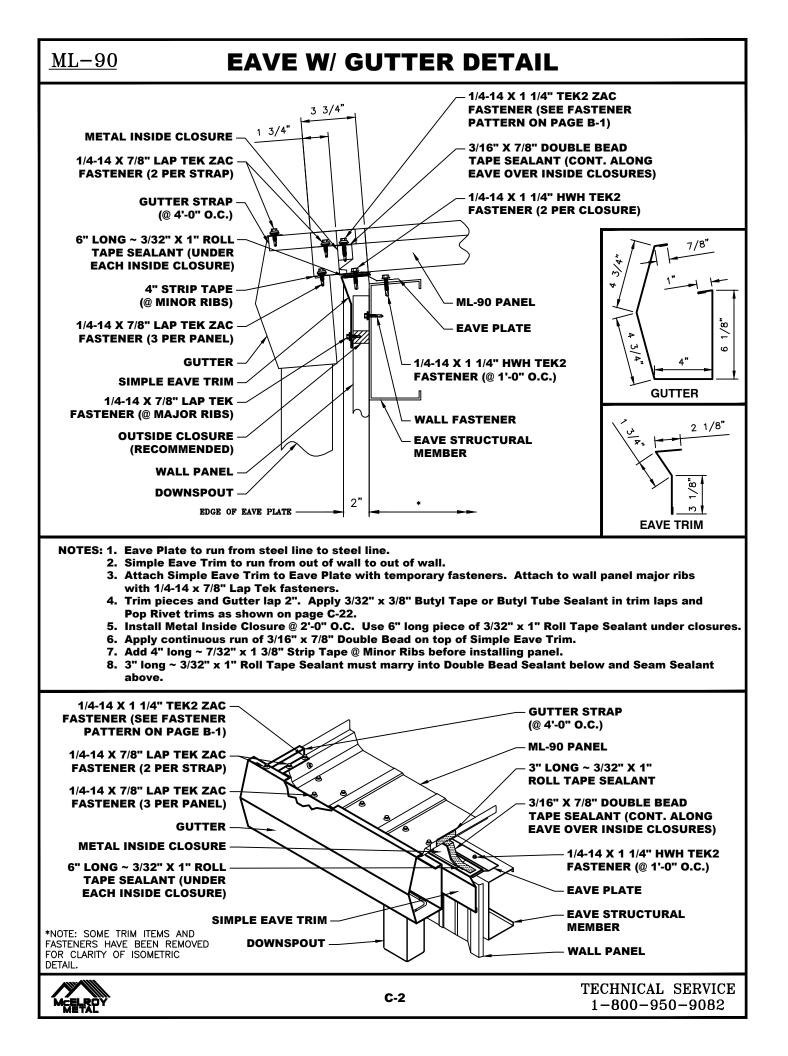
INSULATION / THERMAL SPACER SELECTION GUIDE				
INSULATION THICKNESS	UTILITY CLIP SYSTEM	LOW CLIP SYSTEM	HIGH CLIP SYSTEM	
NO INSULATION	NO THERMAL SPACER	3/8" THERMAL SPACER	NOT RECOMMENDED	
3" INSULATION	NOT RECOMMENDED	NO THERMAL SPACER	1" THERMAL SPACER	
4" INSULATION	NOT RECOMMENDED	NO THERMAL SPACER	5/8" THERMAL SPACER	
6" INSULATION	NOT RECOMMENDED	NOT RECOMMENDED	3/8" THERMAL SPACER	

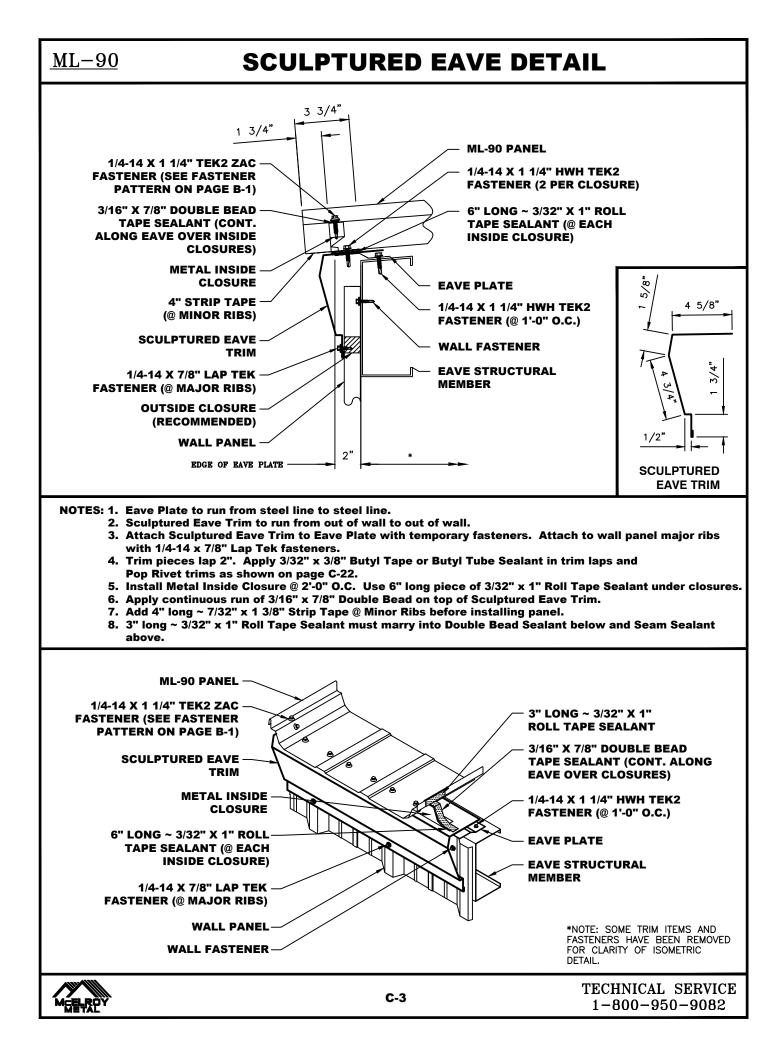
#### THERMAL SPACER DISCLAIMER:

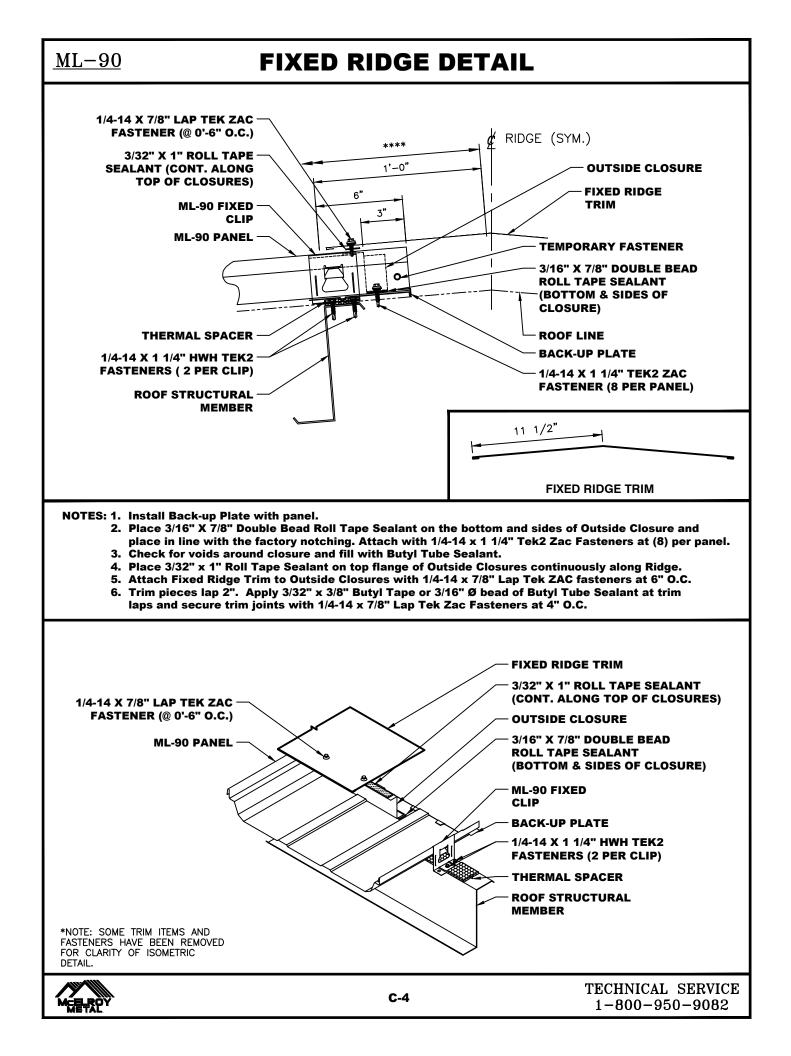
The above chart is only a guide. There are many blanket insulation manufactures and as such the densities of the insulation vary from manufacture to manufacture. This needs to be considered when selecting the appropriate clip system and thermal spacers. The different densities may affect the appearance of the metal roof system. In the end it is the installer's responsibility to make the correct selection. McElroy Metal does not require the use of thermal spacers with its metal roof systems however, the building owner or architect may. In certain climates the lack of a thermal spacer may cause a thermal break to occur which could lead to condensation. If a thermal spacer is not used on an un-insulated building a rumbling to a "thunder" type noise may be observed to be more pronounced. If a thermal spacer is not used, panel modularity may be more difficult to hold. Using too much or too dense insulation may result in purlin read through, may be more difficult to install, and/or may cause difficulty in holding panel modularity.

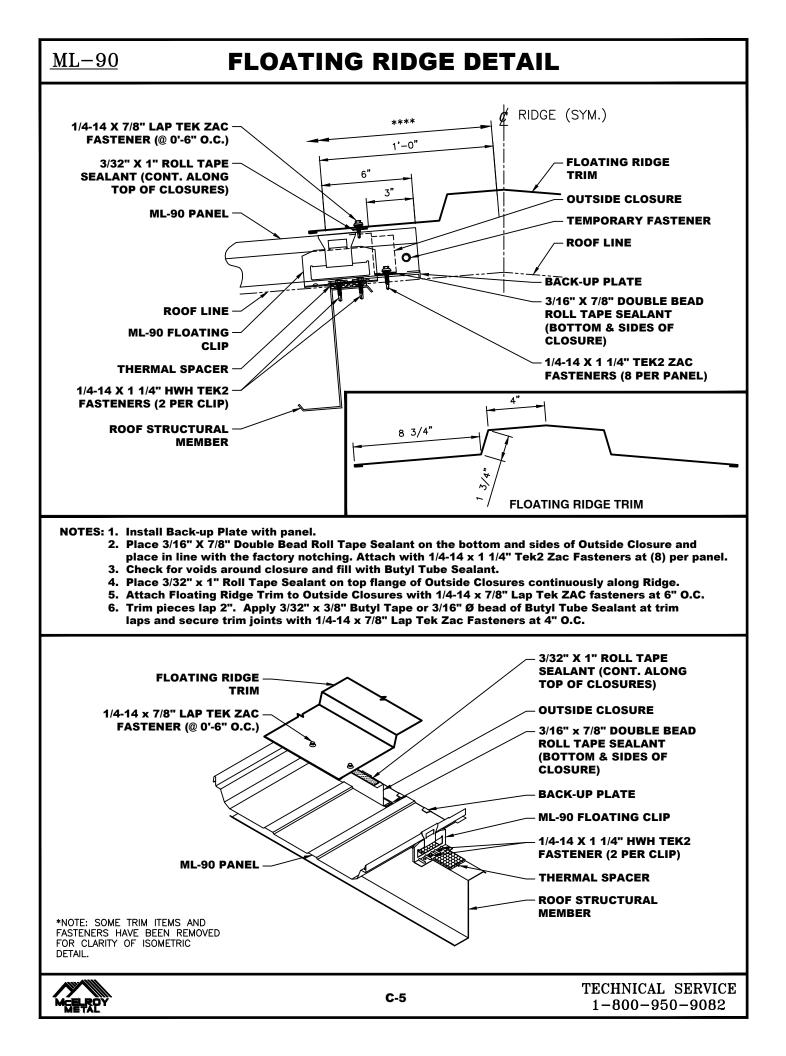






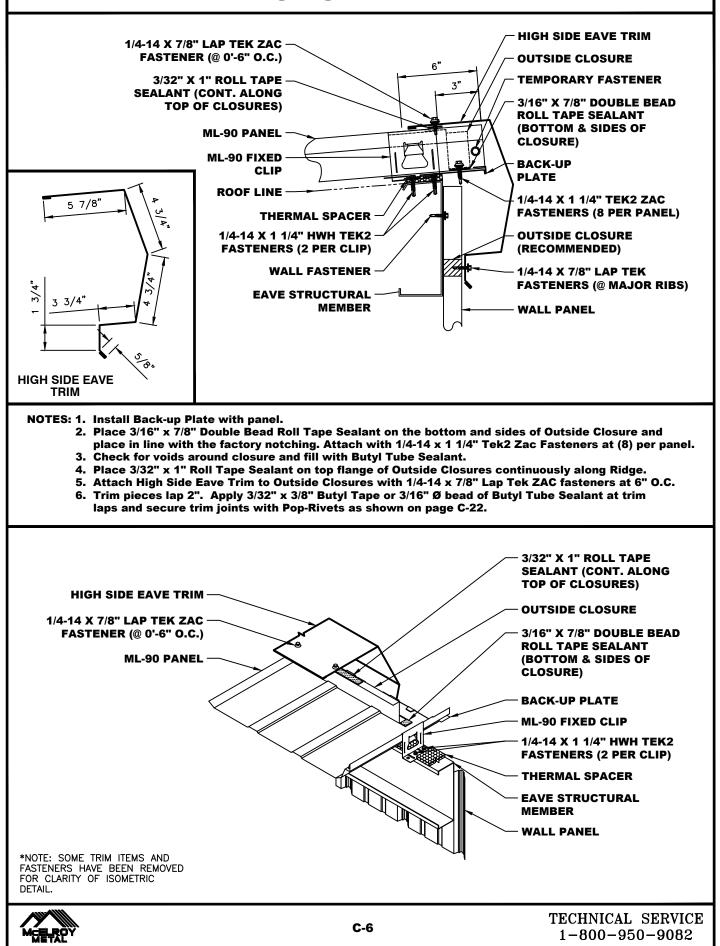


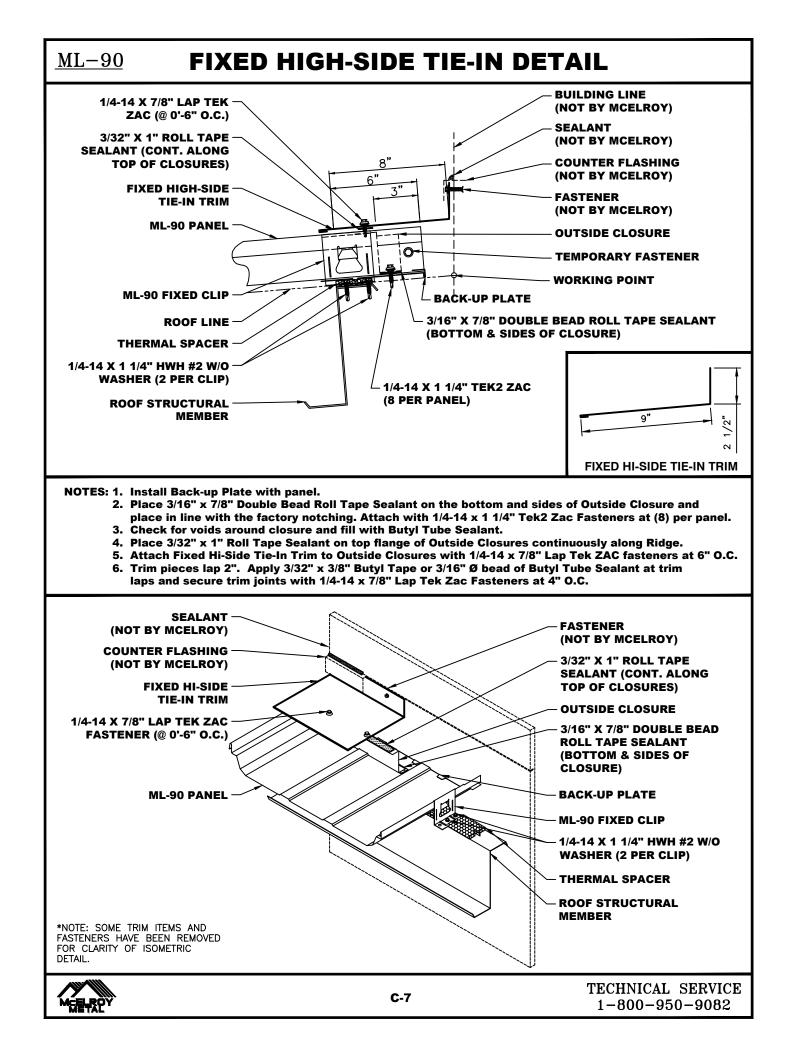




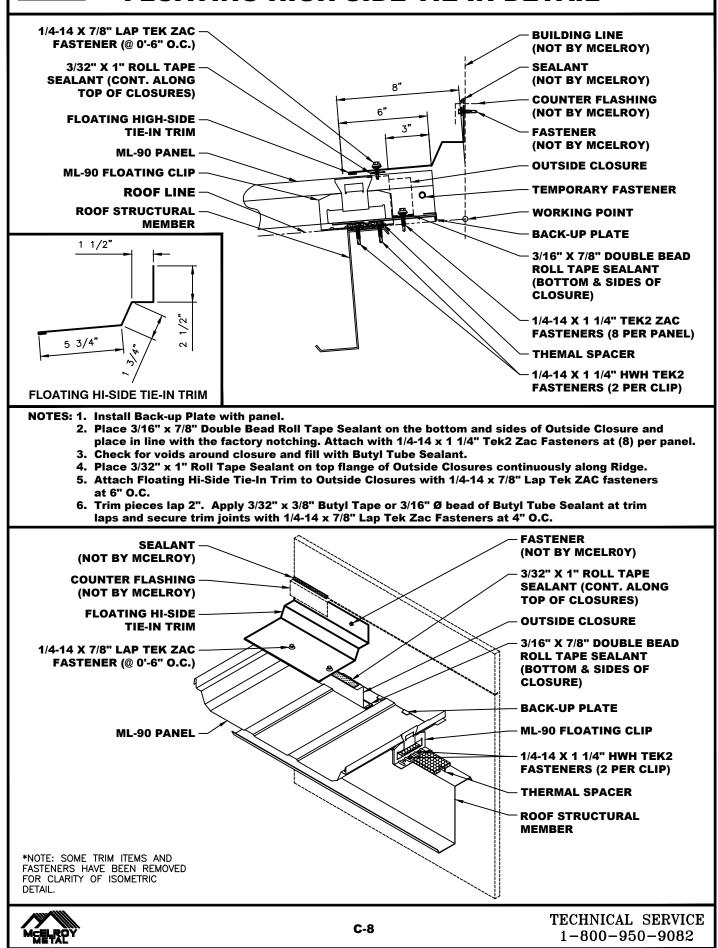
#### FIXED HIGH SIDE EAVE DETAIL

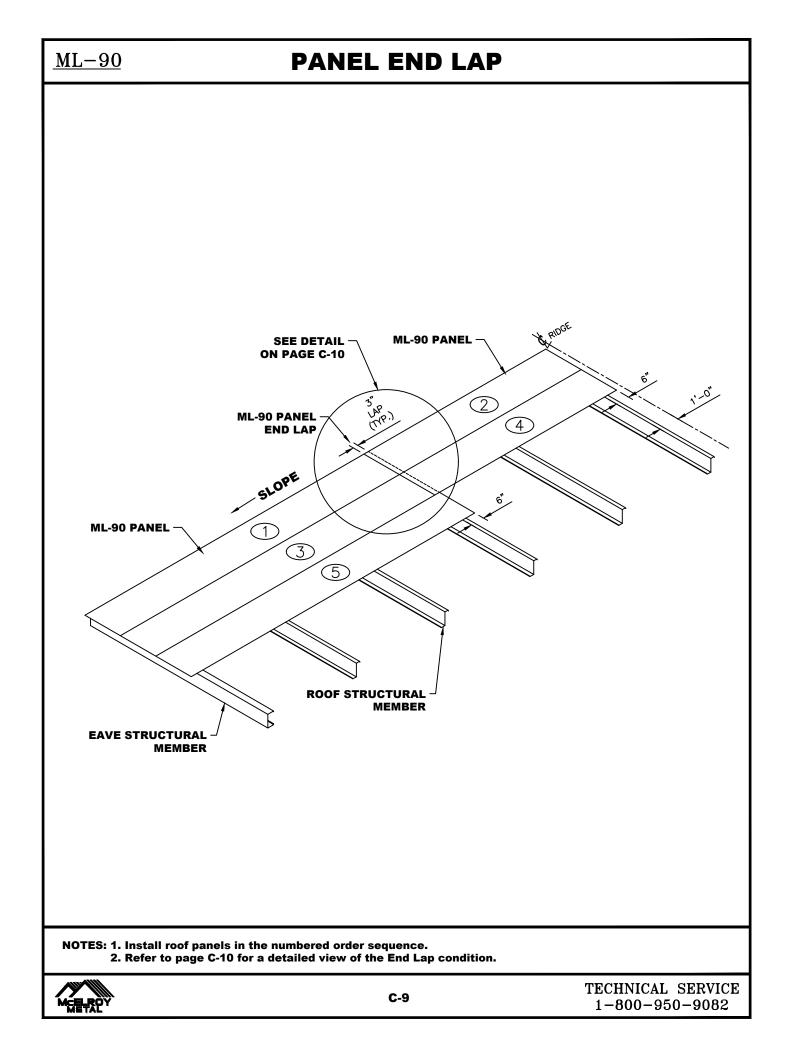
ML-90

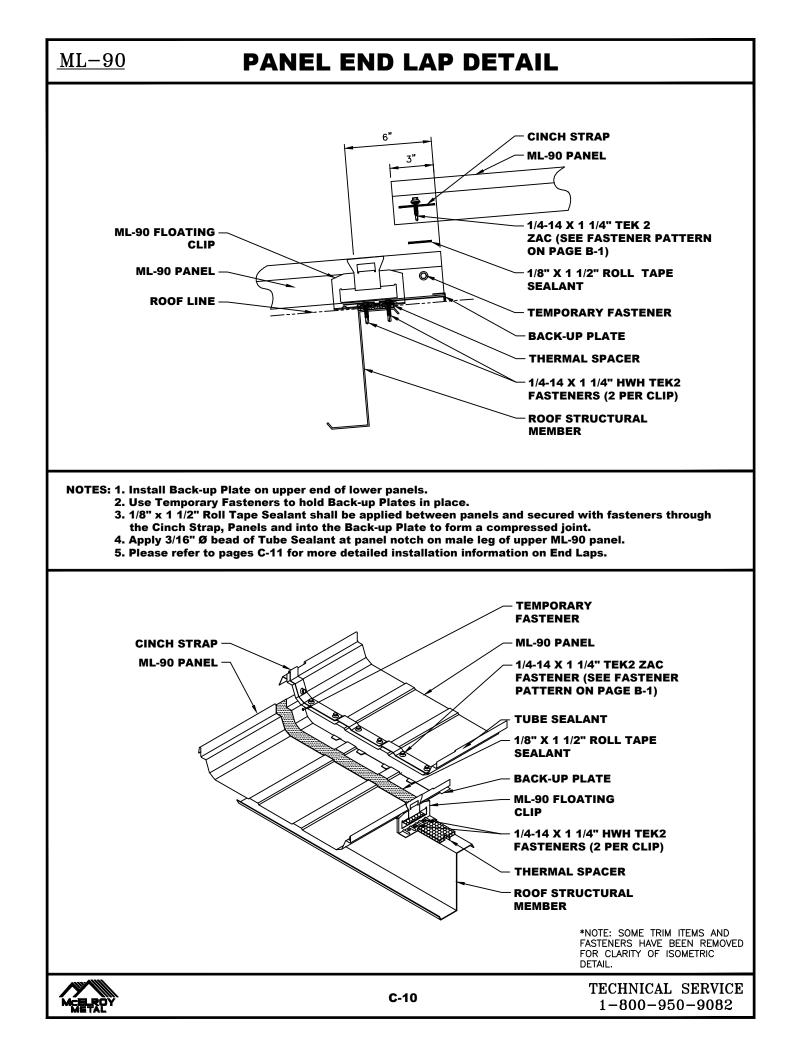


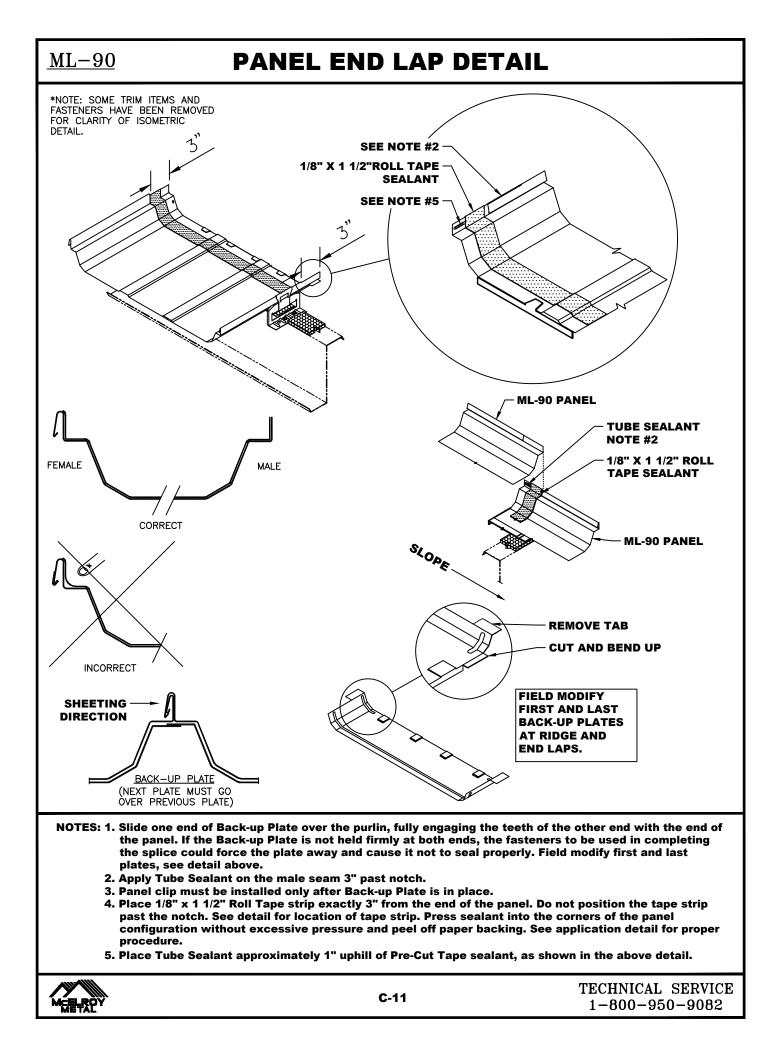


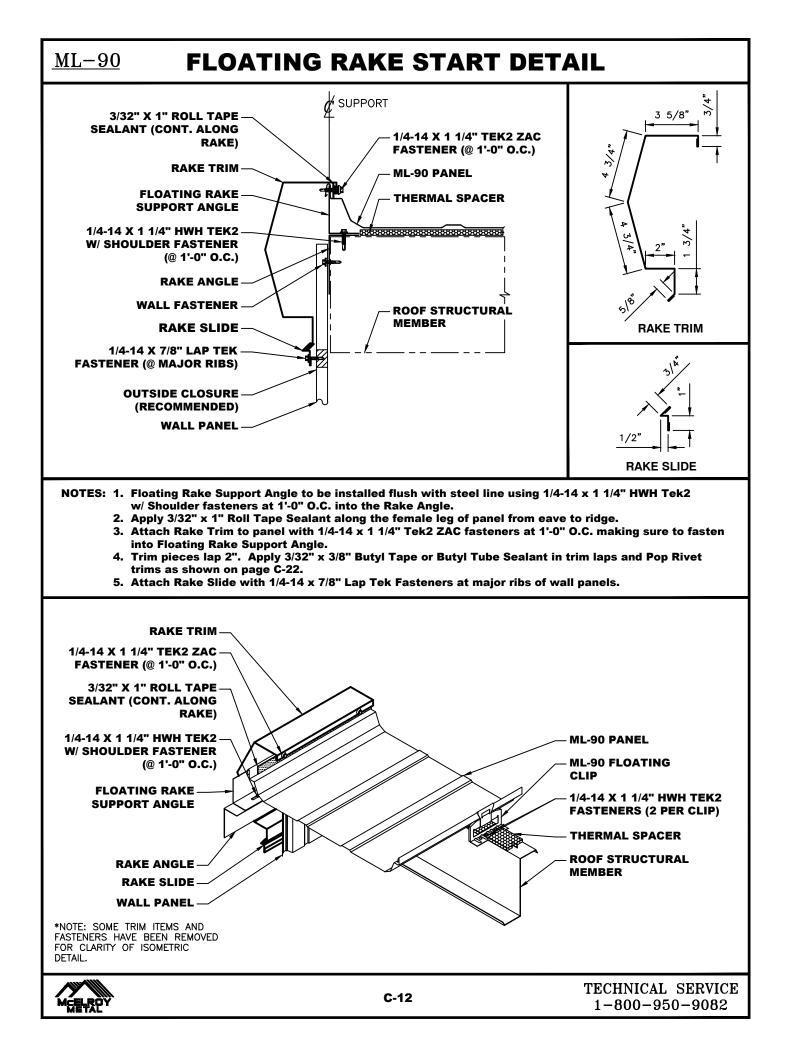
### <u>ML-90</u> FLOATING HIGH-SIDE TIE-IN DETAIL

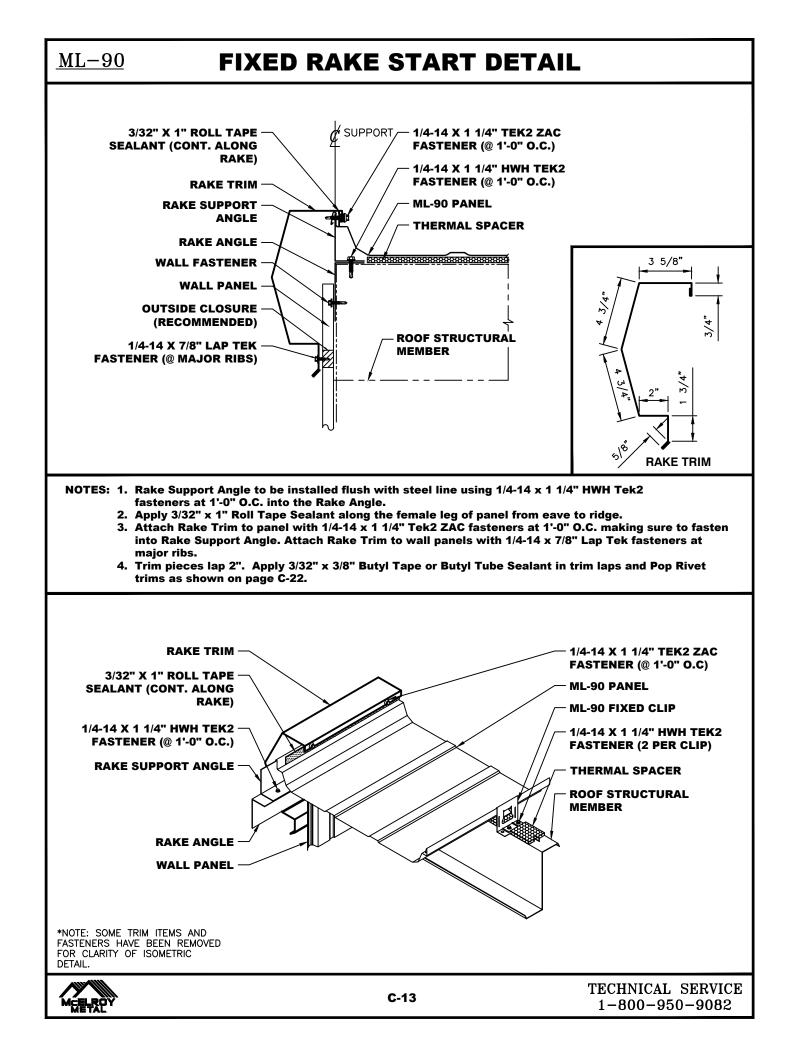


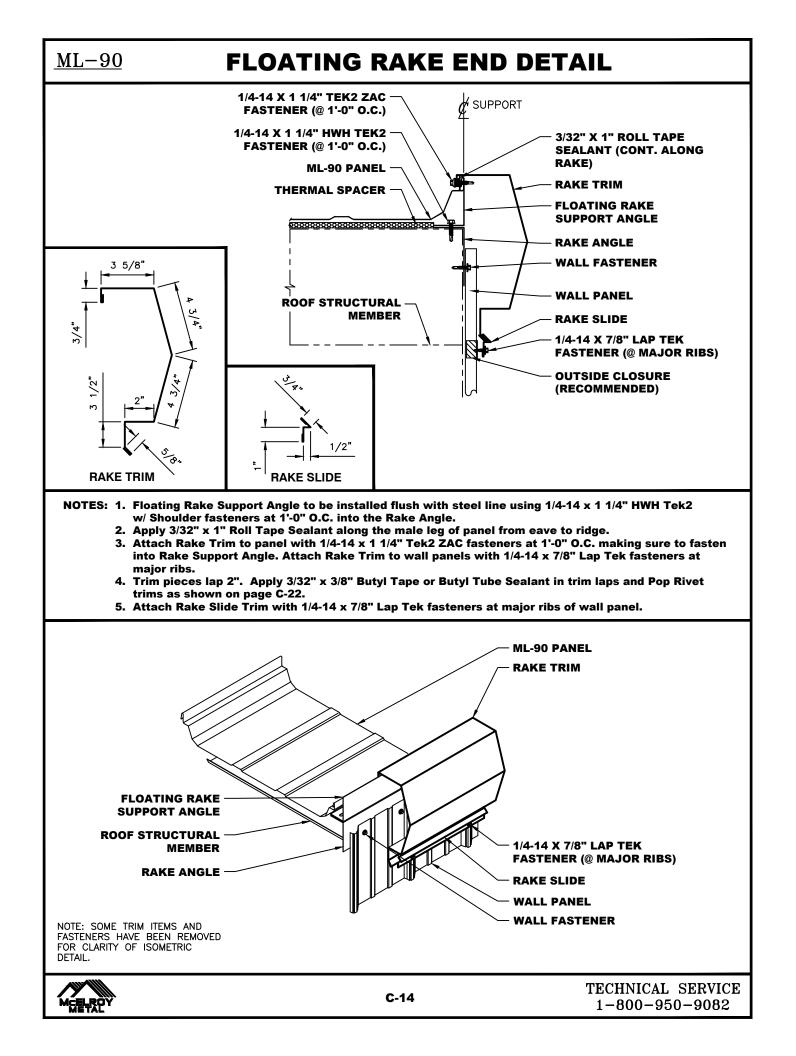


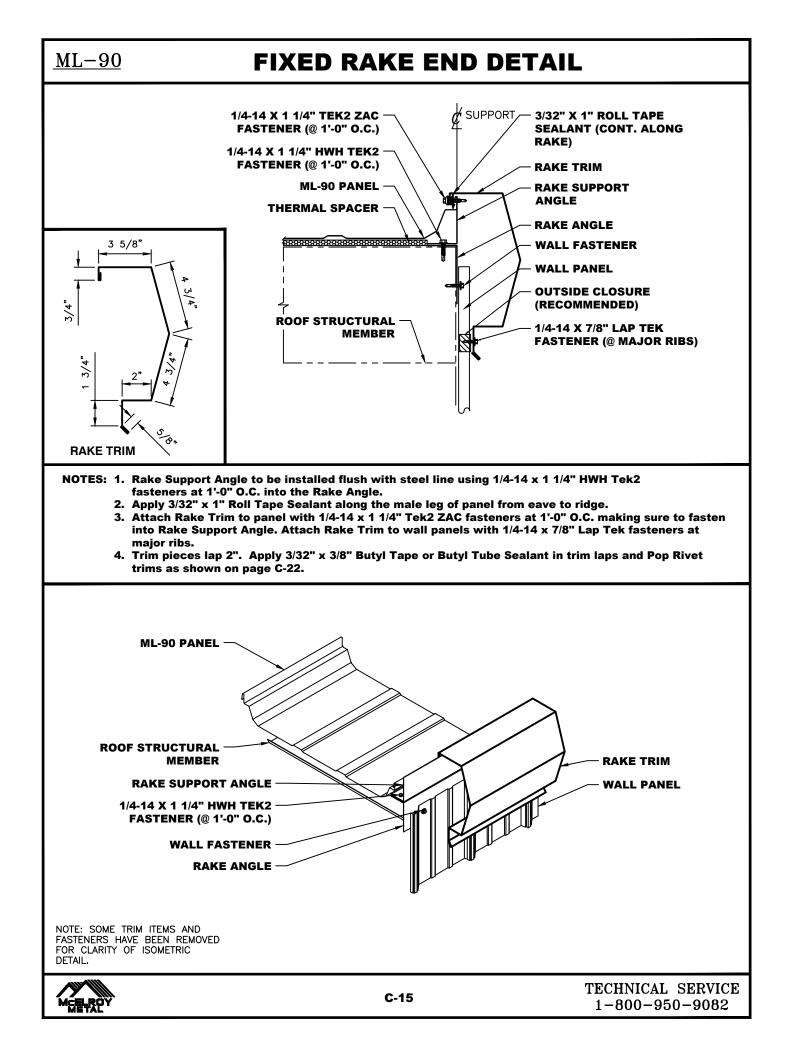


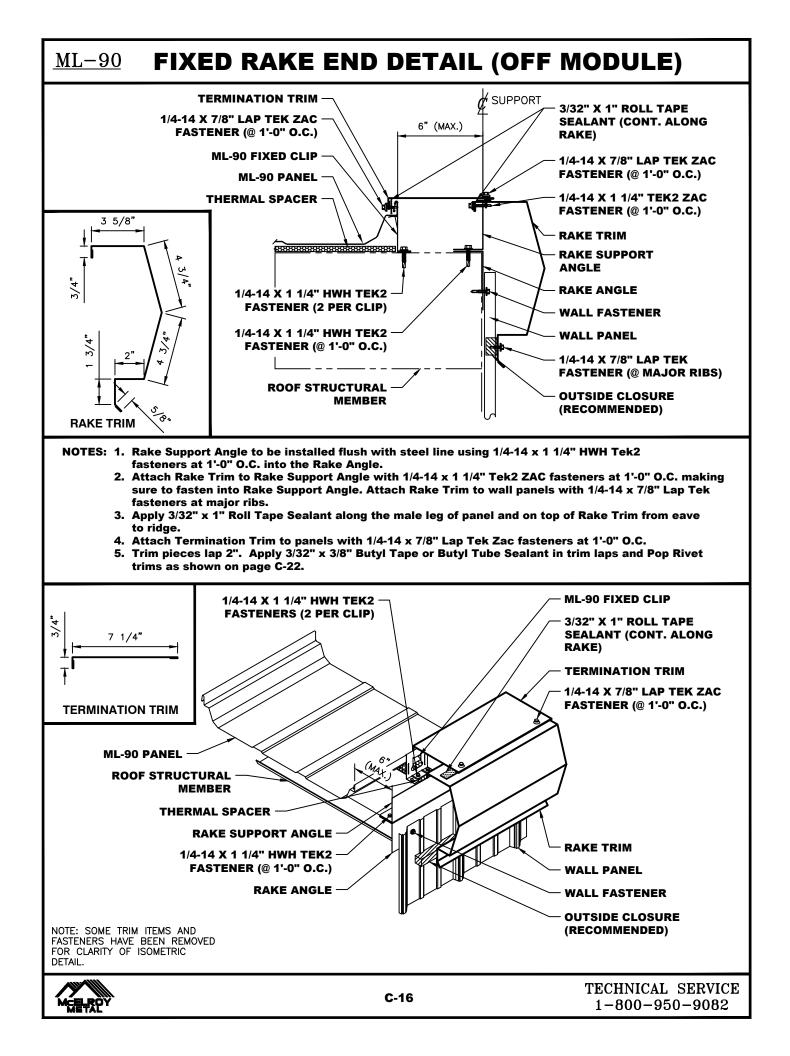


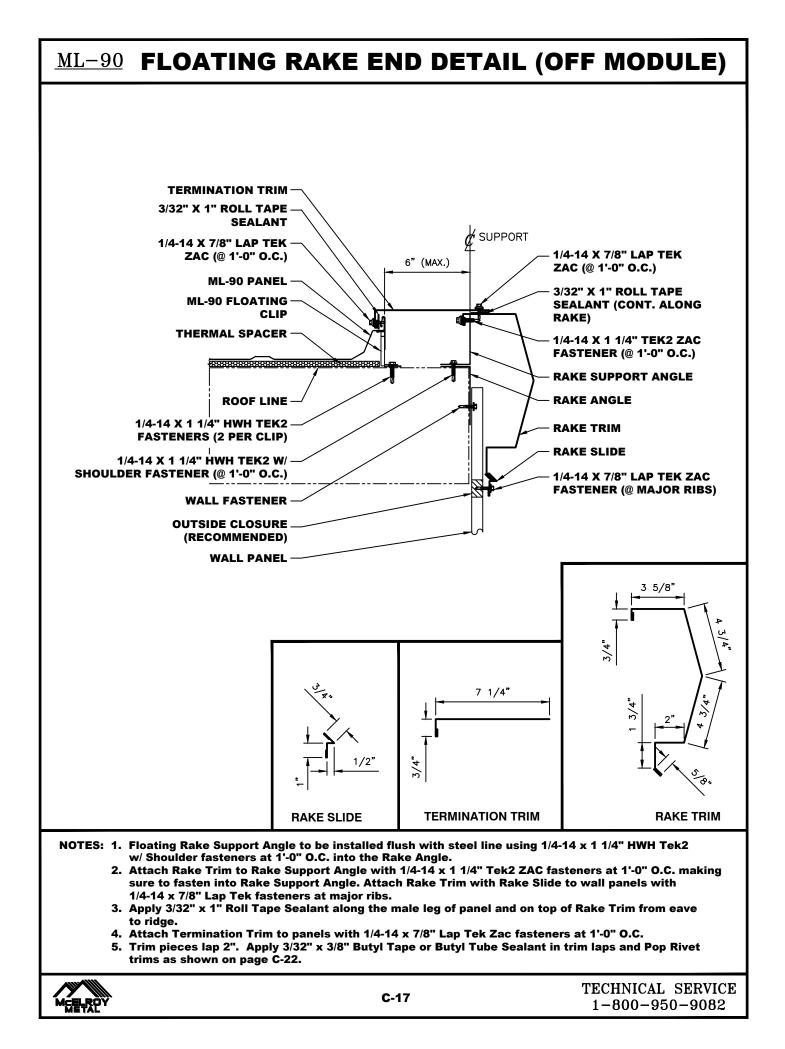


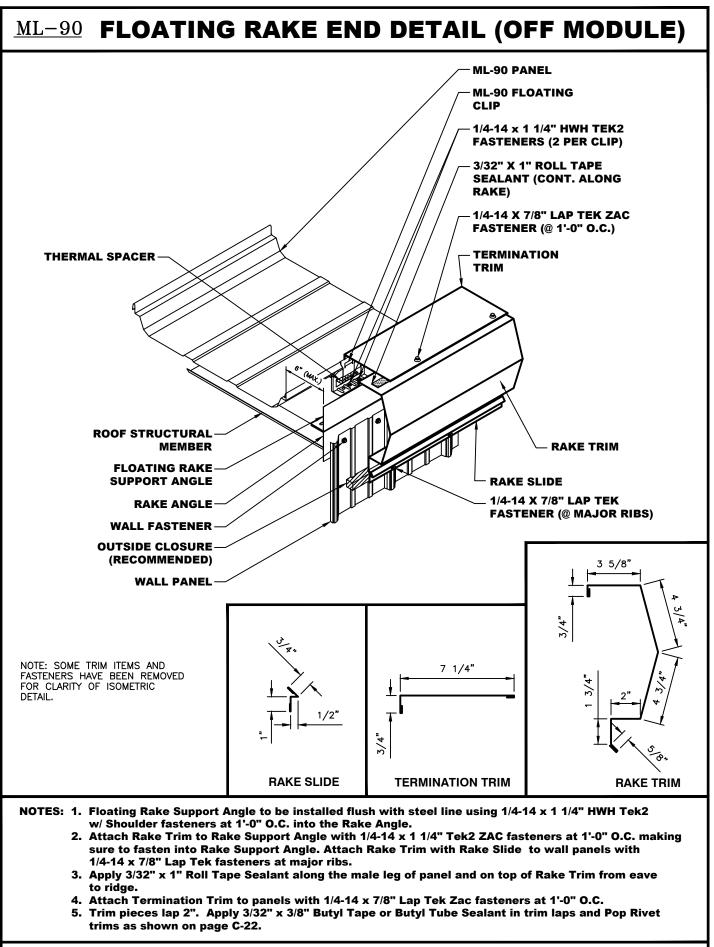


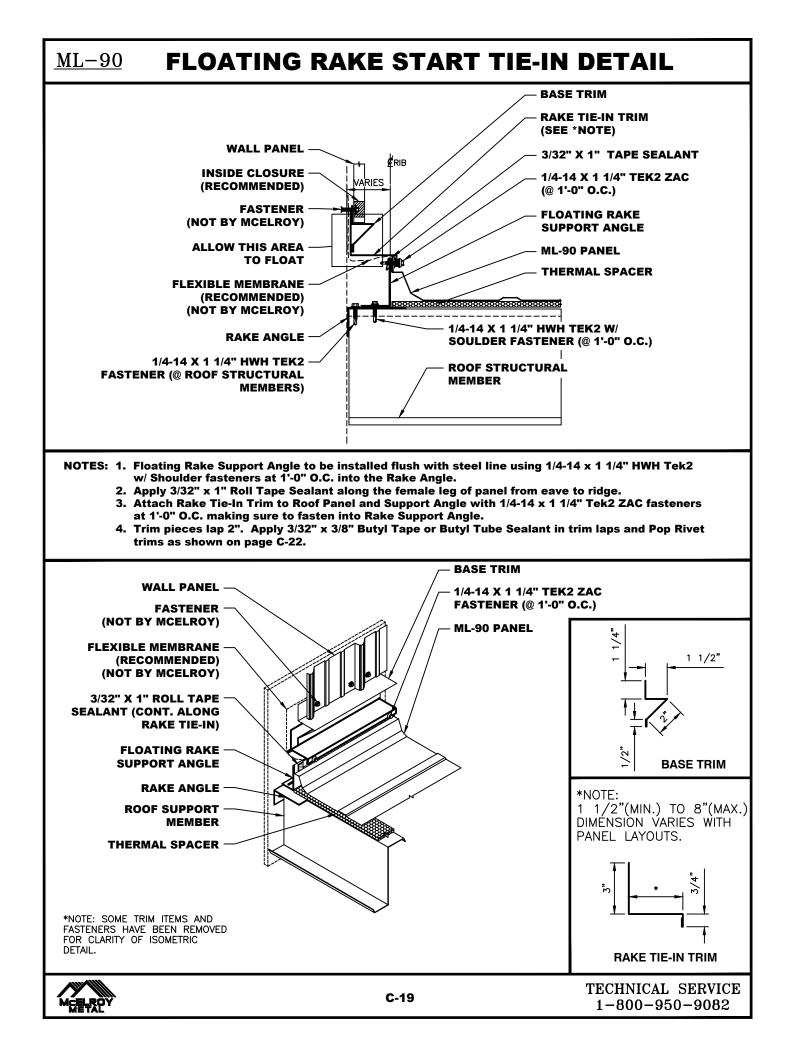


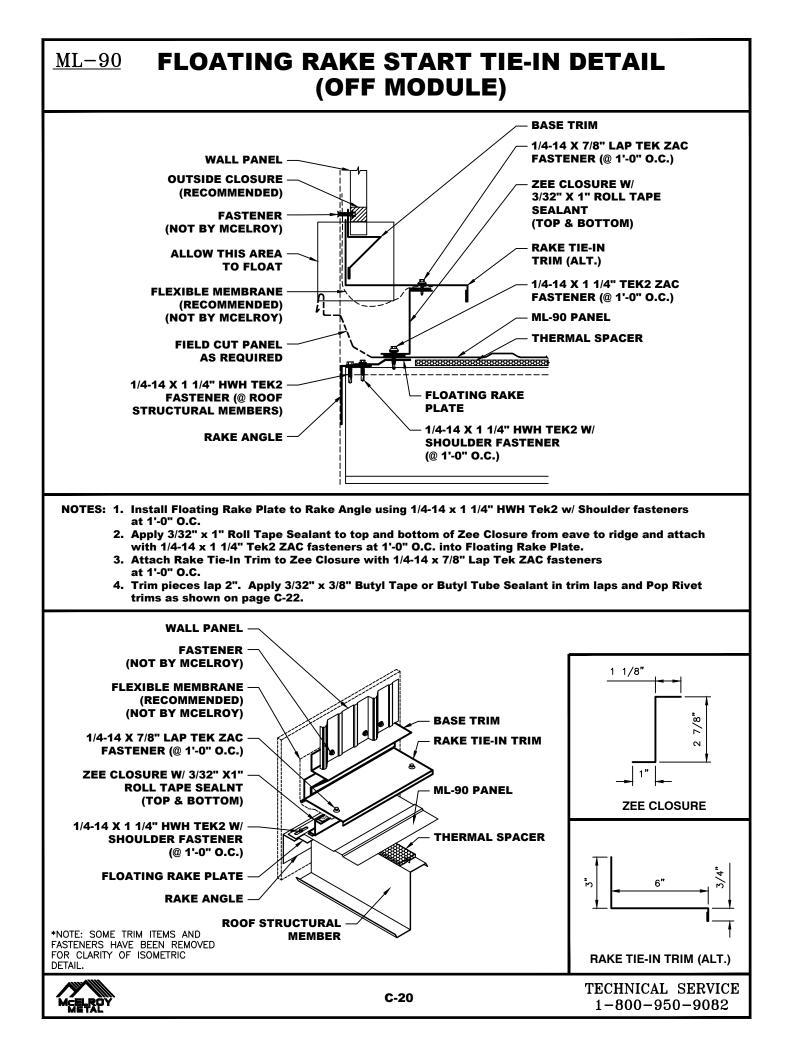


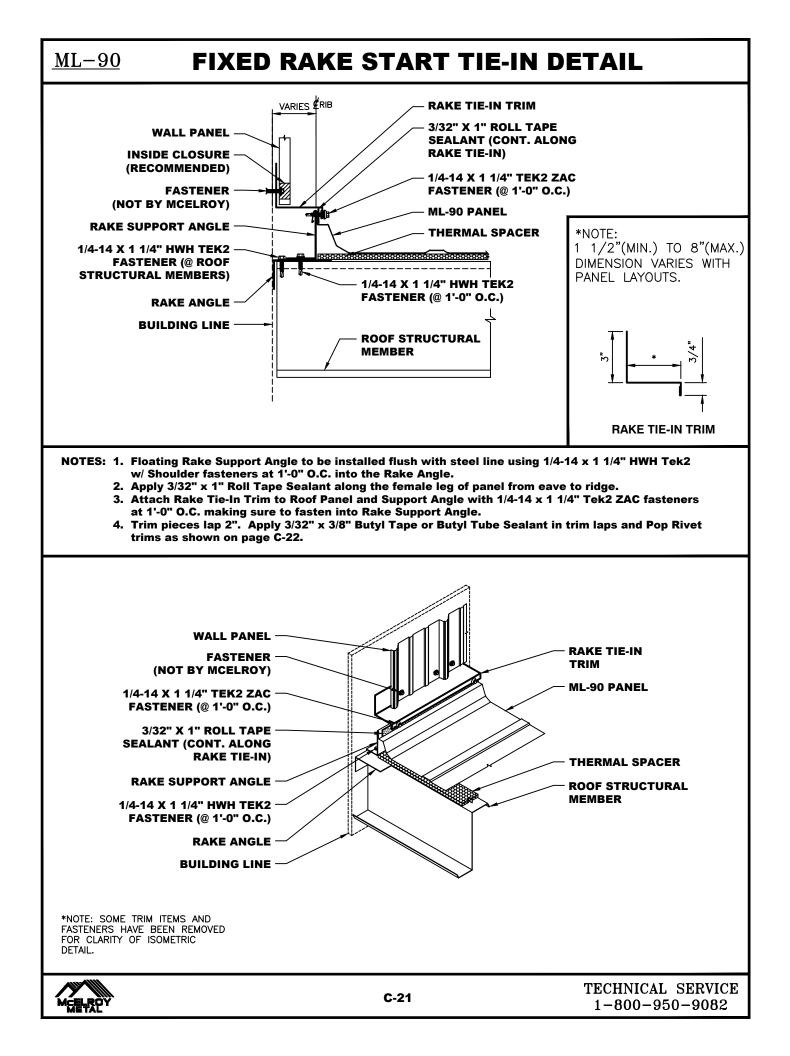


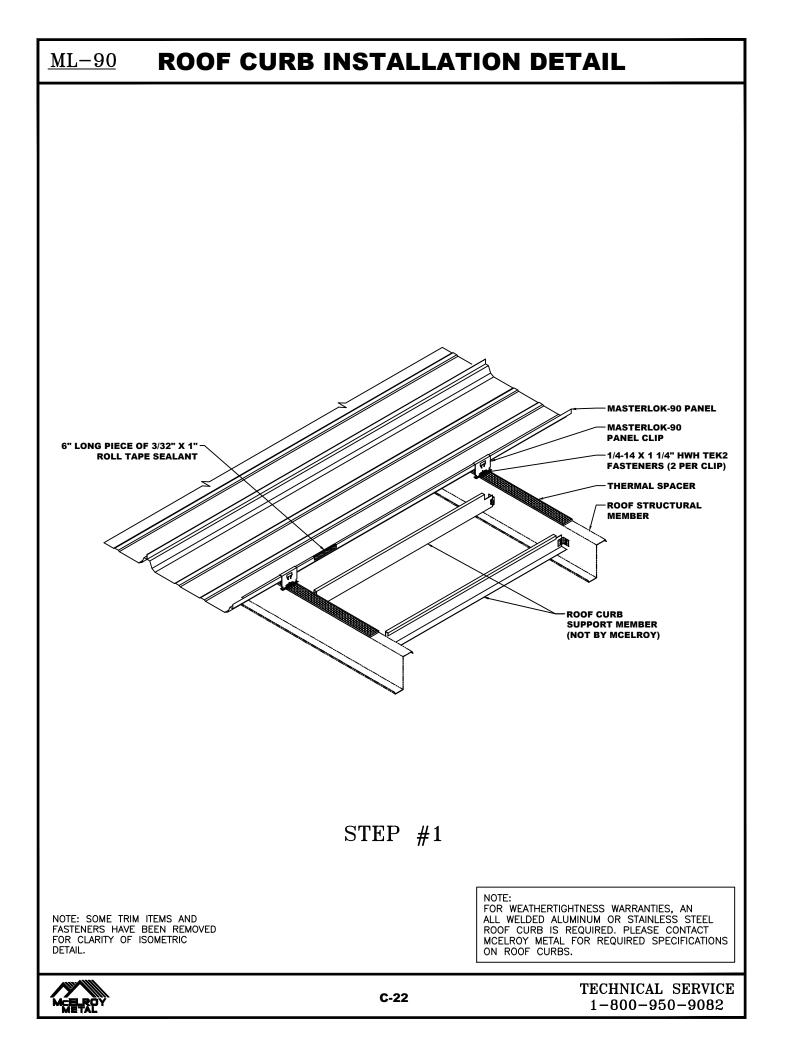


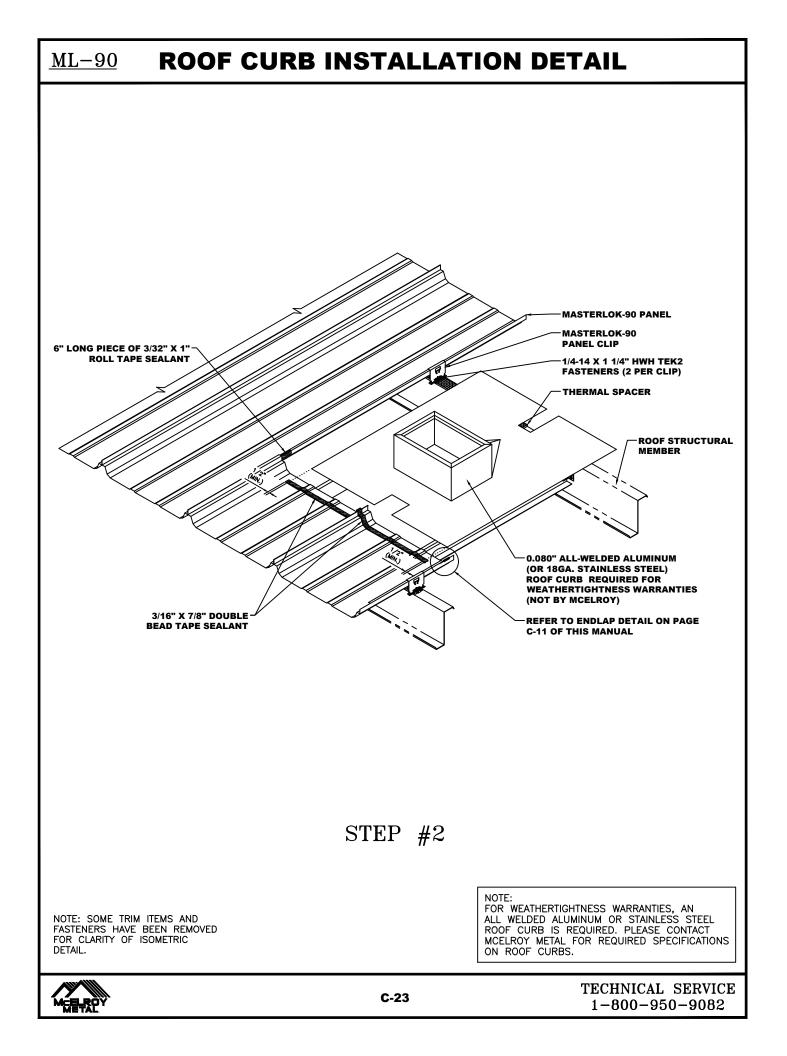


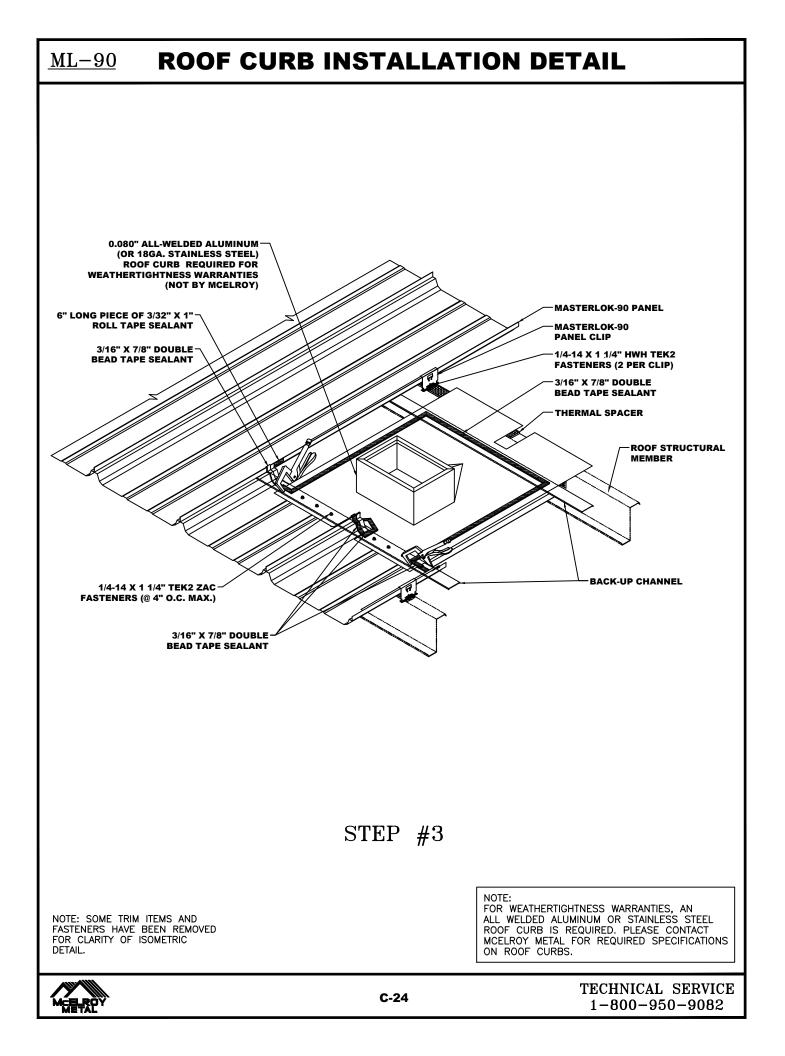


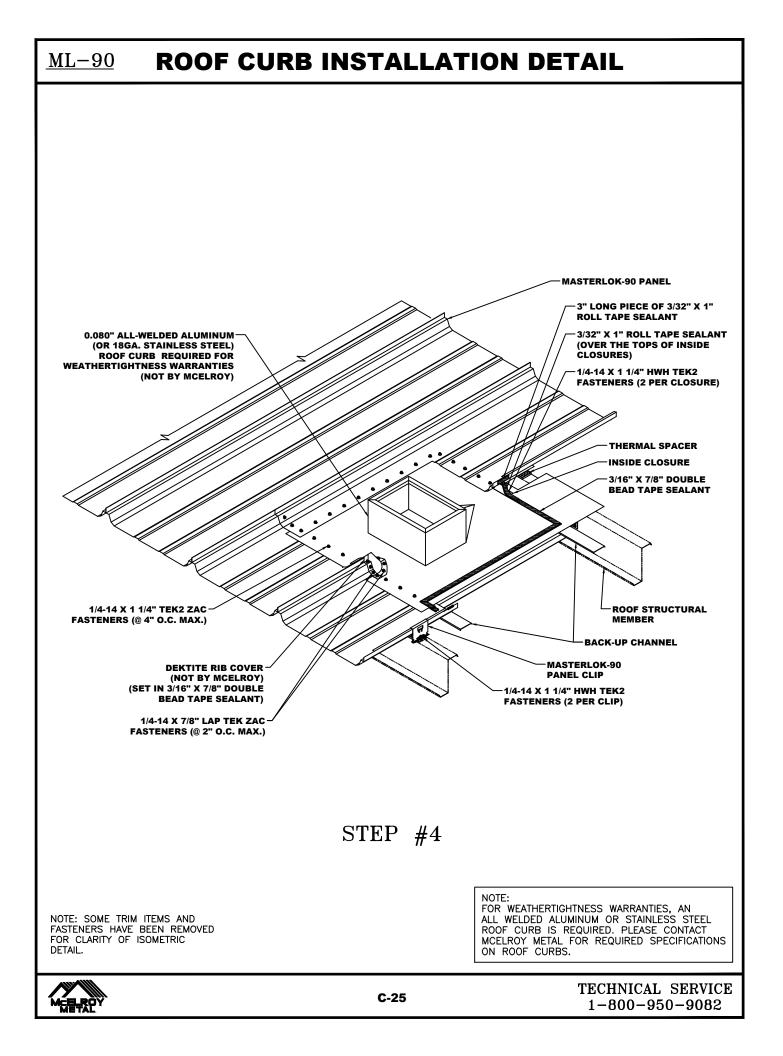


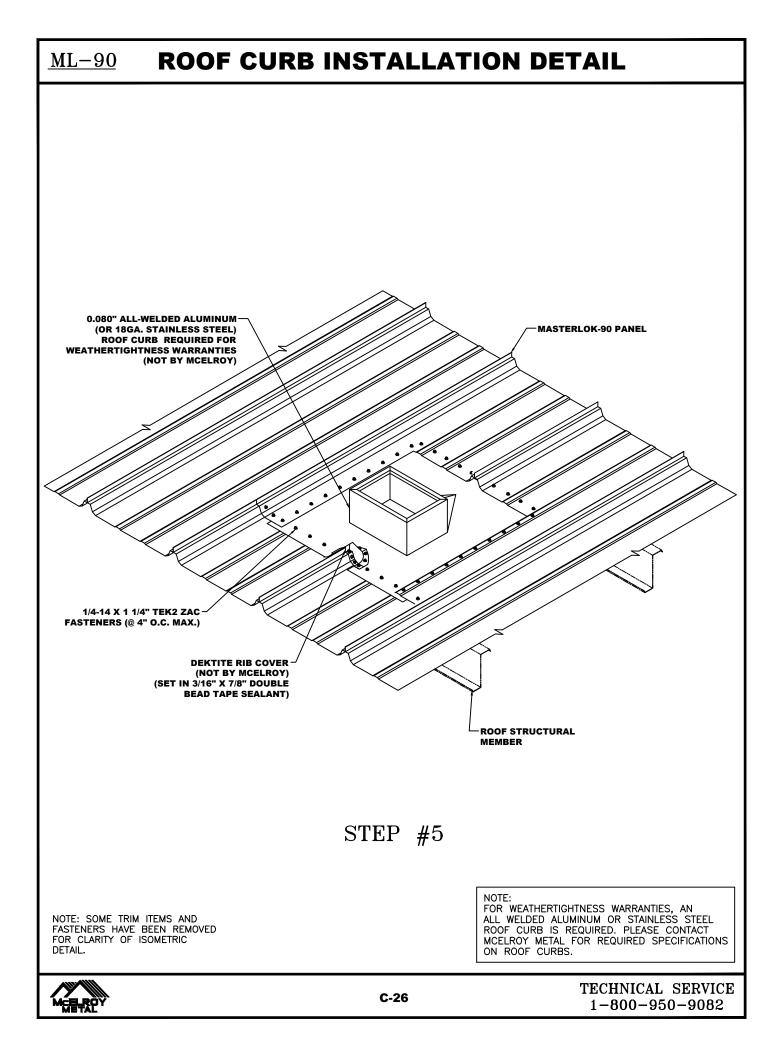


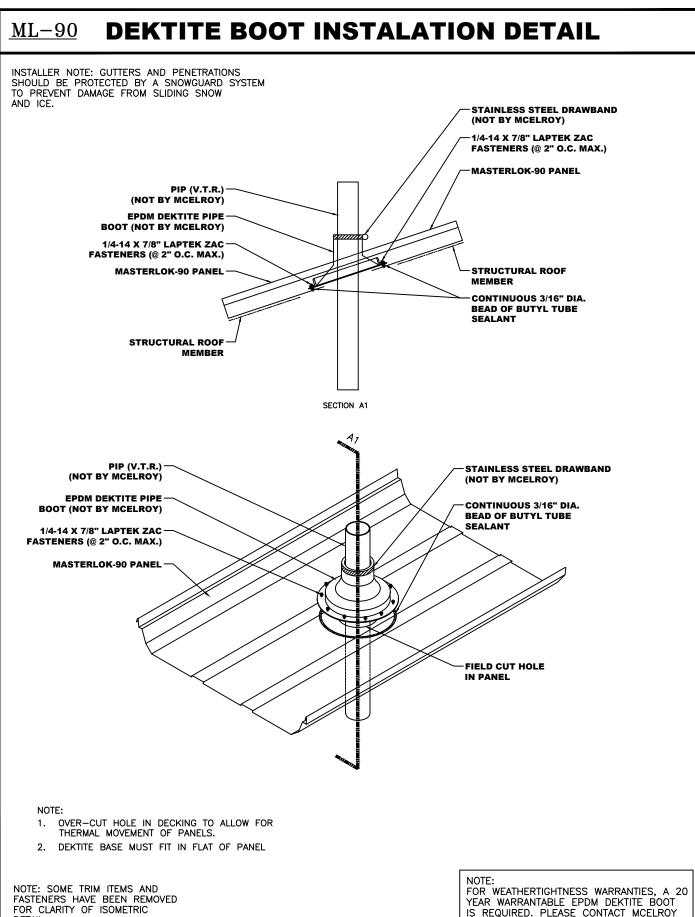








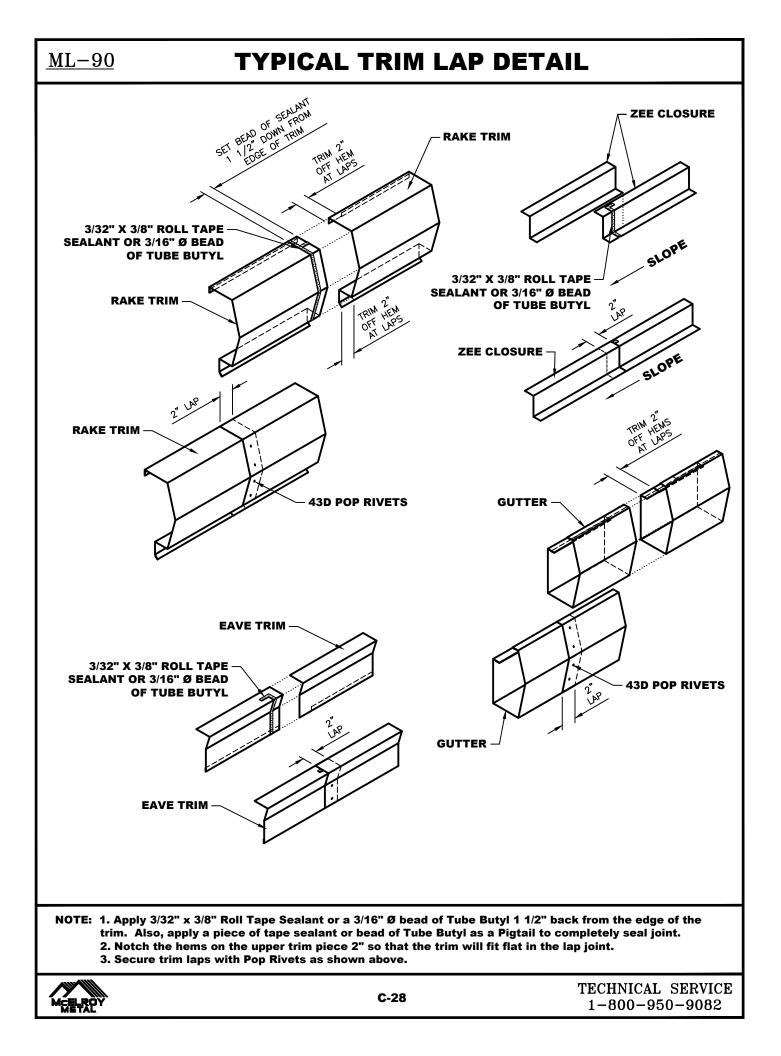




FOR CLARITY OF ISOMETRIC DETAIL.

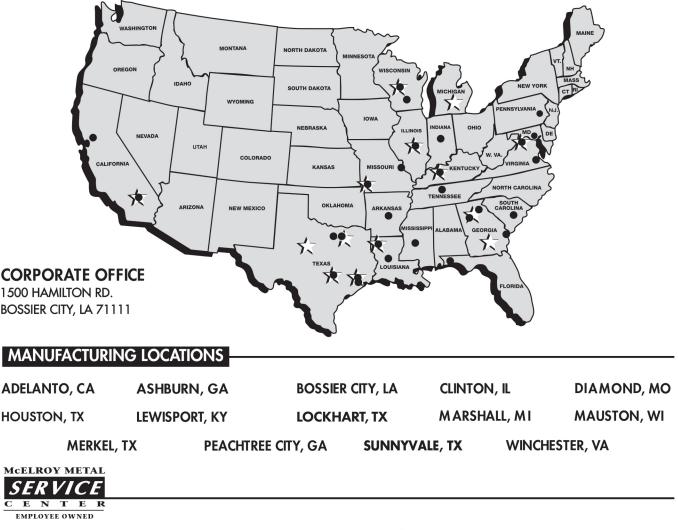
> TECHNICAL SERVICE 1-800-950-9082

IS REQUIRED. PLEASE CONTACT MCELROY METAL FOR REQUIRED SPECIFICATIONS.





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32 Industrial Circle Lancaster, PA 17601

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8511 Industrial Drive Pearland, TX 77584

1365 Dean Forest Rd. Savannah, GA 31405 5215 Leo St. Alexandria, LA 71301

9476 Meadowbrook Rd. Clinton, IL 61727

3014 Lincoln Court Garland, TX 75041

9435 US Hwy. 60 W. Lewisport, KY 42351

514 Cave Road Nashville, TN 37210

2755 Hwy 60 Pendergrass, GA 30567

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